## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25634

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : B05B 1/26, 1/34, 1/00; A62C 31/02; F23D 11/38, 14/48; E02B 8/08  US CL : 239/461, 589; 405/81			
US CL: 239/461, 589; 405/81 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIBLDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 239/461, 498, 500, 502, 518, 542, 589, 590, 590.5, ; 405/21, 22, 25, 30, 31, 35, 39, 80, 81, 83, 84, 118, 119			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where		Relevant to claim No.	
X US 286,869 A (TRAMMER) 16 October 1883 (1)	US 286,869 A (TRAMMER) 16 October 1883 (16.10.1883), see entire document. 1, 5, 6, 12, 19, 20		
A US 4,657,434 A (WOOLNOUGH) 14 April 1987 (14.04.1987), see entire document.			
A US 6,588,370 B1 (ODEH) 08 July 2003 (08.07.2	A US 6,588,370 B1 (ODEH) 08 July 2003 (08.07.2003), see entire document.		
·			
	· •		
Further documents are listed in the continuation of Box C.			
Special categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic		
"A" document defining the general state of the art which is not considered to be of particular relevance	principle or theory underlying the inve	ntion	
"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step		
specified)  "O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents, such combination	
"P" document published prior to the international filing date but later than the	"&" document member of the same patent	family	
priority date claimed			
Date of the actual completion of the international search	Date of mailing of the international search report  2 2 MAR. 2005  Authorized officer Sharon 11. There for  Dave Scherhel		
17 February 2005 (17.02.2005)	Authorized officer Co	<u>                                     </u>	
Name and mailing address of the ISA/US  Mail Stop PCT, Atm: ISA/US	sharon 91./01	reure for	
Commissioner for Patents	Dave Scherbel	$\nu$	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-308-0861		
Facsimile No. (703) 305-3230			